



R. Lavin & Sons, Inc.

Refiners and Smelters of Nonferrous Metals

September 21, 2001

IEPA
Water Pollution Control Division
Attn: Mr. Thomas McSwiggan
1021 N Grand Ave East
Springfield, IL 62794-9276

Re: IEPA renewal of permit # IL0002755

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SEP 28 2001

Environmental Protection Agency
WPC • Permit Log In

Mr. Thomas McSwiggan:

Enclosed please find the forms R. Lavin & Sons, Inc., is submitting to renew the existing NPDES permit #IL0002755. The following forms were sent to Lavin by the IEPA in May 2001 so that Lavin could apply to renew its existing permit:

1. Form 1 General
2. Form 2C
 - a. 001 Data (V1-V9).
 - b. 002 Data (V1-V9) included since there is an emergency overflow from 001 to a tributary to outfall 002, which the IEPA has previously stated that it must be included as a process water outfall, even though Lavin considers it to be only a storm water outfall.
 - c. Attachment II-B.
 - d. Maps showing 001, 002, 003, 004 (drawn by Baxter & Woodman Environmental Engineers).
 - e. USGS Map (Baxter & Woodman, environmental engineers)
 - f. NSDS Site Plan (small version)
 - g. Re-circulated Water & Storm Water Process Flow Diagram (May 1995)
 - h. Process Water Flow Diagram (Figure 1-i)
3. Form 2F
 - a. 002 Data (VII-A,B,C) Storm water outfall.
 - b. 003 Data (VII-A,B,C) Storm water outfall.
 - c. 004 Data (VII-A,B,C) Storm water outfall.
 - d. Attachment I.
 - e. Attachment IV and C.
 - f. Maps showing 001, 002, 003, 004 (drawn by Baxter & Woodman Environmental Engineers).
 - g. USGS Map (Baxter & Woodman, environmental engineers).
 - h. NSDS Site Plan (small version).
 - i. Re-circulated Water & Storm Water Process Flow Diagram (May 1995)
 - j. Storm Sewer Tributary Areas and Ground Surface Cover (drawn by Baxter & Woodman Environmental Engineers).

Note: One large drawing supplied for both forms 2C and 2F

REC'D 2/27/02
Div. Water Pollution Control
Field Operations Section, DPC

US EPA RECORDS CENTER REGION 5



400199

2028 Sheridan Road North Chicago, Illinois 60064
Phone 847-689-4300 Fax 847-689-0513

Tom Mcswiggin
September 21, 2001
Page 2

Lavin continues to believe that none of Lavin's outfalls require a permit for process water discharges. Structural changes at 001 have virtually eliminated the possibility of discharge from this outfall. Nonetheless, Lavin is providing Form 2C because the IEPA has indicated in the past that its inclusion is necessary.

Should you have any questions or comments please do not hesitate to call.

Sincerely,



George Lennon

cc: Ray Reott / Jenner & Block
Abrams & Jossel Consulting
Internal File

FORM

1
GENERAL
**U.S. ENVIRONMENTAL PROTECTION AGENCY
GENERAL INFORMATION**

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F ILD097271563

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space [see the information that should appear]), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

LABEL ITEMS**I. EPA I.D. NUMBER**

ILD097271563

III. FACILITY NAME

R. Lavin & Sons, Inc.
2028 Sheridan Road
North Chicago, IL.
60064

V. FACILITY MAILING ADDRESS**VI. FACILITY LOCATION****II. POLLUTANT CHARACTERISTICS**

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES NO FORM ATTACHED			SPECIFIC QUESTIONS	MARK 'X' YES NO FORM ATTACHED		
	16	17	18		19	20	21	22
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)	X			B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)	X		
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X			D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)	X		
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X			F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)	X		
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)	X			H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)	X		
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	X			J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	X		
	40	41	42		43	44	45

III. NAME OF FACILITY

1 SKIP R LAVIN & SONS, INC.

IV. FACILITY CONTACT

	A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2	George Lennon Vice President	8 4 7 6 8 9 4 3 0 0

V. FACILITY MAILING ADDRESS**A. STREET OR P.O. BOX**

3 2028 Sheridan Road

4 N. Chicago

5 2028 Sheridan Road

6 N. Chicago

VI. FACILITY LOCATION**A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER**

5 2028 Sheridan Road

6 N. Chicago

B. COUNTY NAME

Lake

C. CITY OR TOWN

N. Chicago

6 N. Chicago

5 2028 Sheridan Road

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**FORM
2C
NPDES**



**U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS**

Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (lot)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	87	50	13	42	19	15	Drainage Ditch on R. Lavin property prior to 00
002	87	50	13	42	19	15	City of North Chicago Storm Sewer System

II. FLOWING SOURCES OF POLLUTION AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

I. OUTFALL NO. (List)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	4. OPERATION (List)	5. AVERAGE FLOW (Include units)	6. DESCRIPTION	D. LIST CODES FROM TABLE 3C-1
001	Recirculated process water system emergency overflow	N/A emergency overflow	multimedia Filtration	1-0
002	Stormwater runoff and 001 if overflowing in an emergency	See attachment II-B	None	4-A
003	See Form 2F Storm water discharge	See attachment II-B		
004	Storm water discharge see Form 2F	See attachment II-B		
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- C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?
- YES (complete the following table) NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW		5. DUR- ATION (in days)
		A. DAYS PER WEEK (specify average)	B. MONTHS PER YEAR (specify average)	C. FLOW RATE (in mgd)	D. TOTAL VOLUME (specify with units)	
		1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	

III. PRODUCTION

- A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?
- YES (complete Item III-B) NO (go to Section IV)
- B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?
- YES (complete Item III-C) NO (go to Section IV)
- C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
A. QUANTITY PER DAY	B. UNITS OF MEASURE	C. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

IV. IMPROVEMENTS

- A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of waste-water treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.
- YES (complete the following table) NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COST PER DAY (\$/DAY)	
	A. NO.	B. SOURCE OF INFORMATION			

- B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects) which may affect your discharge you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM PAGE 2

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ILD092721563

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided.
 NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
None			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

 YES (list all such pollutants below) NO (go to Item VI-B)001

Copper
 Lead
 Nickel
 Zinc
 Cadmium
 Nickel
 Iron
 Boron

002

Copper
 Lead
 Nickel
 Zinc
 Cadmium
 Nickel
 Iron
 Boron

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (Identify the tests) and describe their purposes below:

NO (go to Section VIII)

Static acute definitive bioassays

Measure the acute toxicity of discharge 001 and 002 to freshwater organisms.

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

YES (list the name, address, and telephone number of, and pollutants analysed by, each such laboratory or firm below)

NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)

B. PHONE NO. (area code & no.)

George Lennon, Vice President

847-689-4300

C. SIGNATURE

George Lennon

D. DATE SIGNED

9-21-01

R Lavin & Sons, Inc.
 Form 2C NPDES Permit Renewal
 Attachment II-B
 Additional Information

<u>Outfall</u>	<u>Rainfall Frequency</u>	<u>Peak Flow Rate (cubic feet per second)</u>	<u>Total Volume (cubic feet)</u>
002	2 year	22.6	24,600
	5	26.2	28,500
	10	28.4	30,900
	50	34.1	37,100
	100	37.8	41,200

These numbers above assume that the storage ditches are full and the 2,000,000 gallon water tank is full as well.

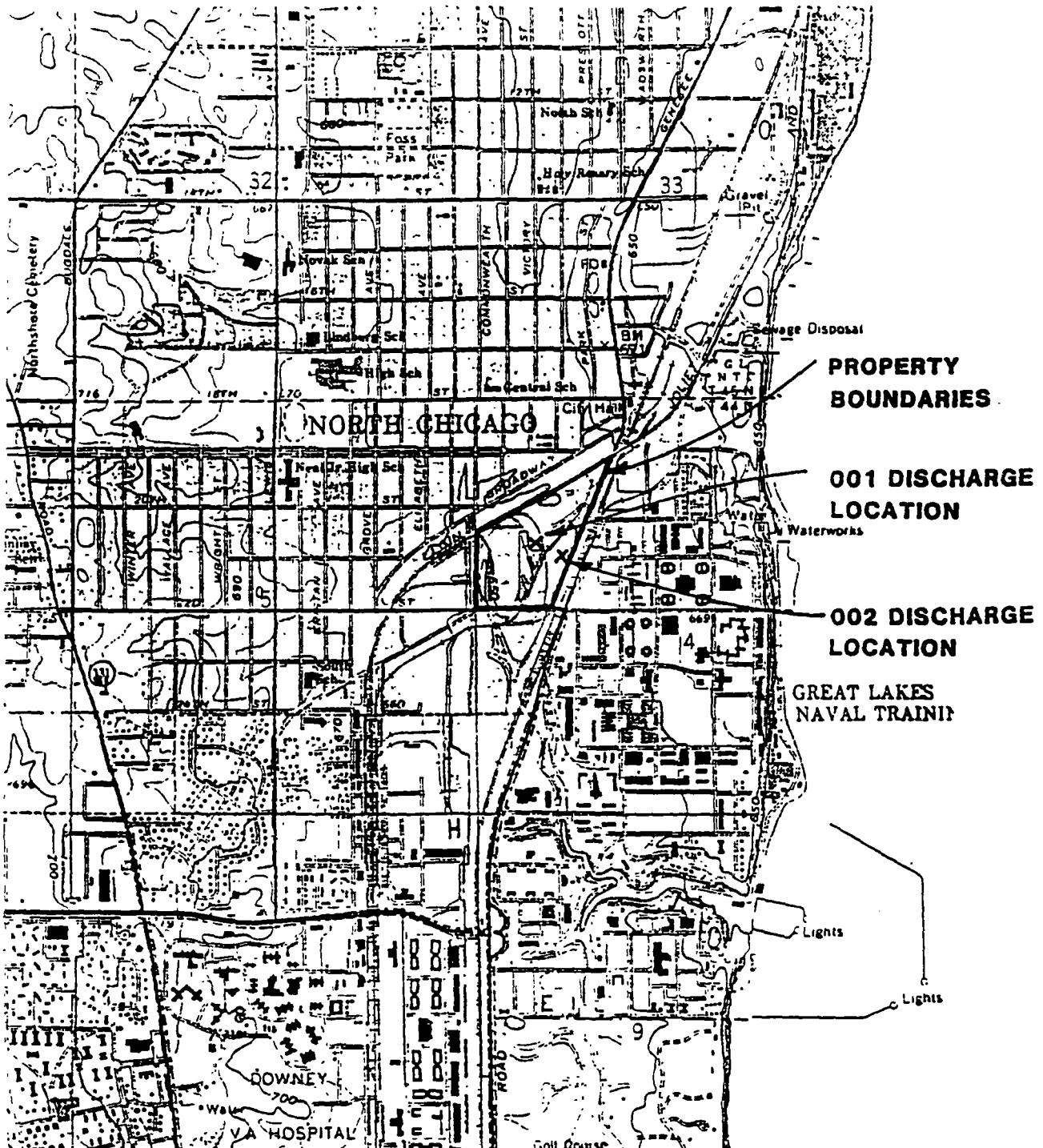
003	2 year	9.1	2,770
	5	10.6	3,220
	10	11.5	3,470
	25	13.7	3,840
	50	14.2	4,010
	100	15.3	4,340

004	2 year	27.9	25,300
	5	32.4	29,400
	10	35.3	32,000
	25	39.5	35,900
	50	42.1	38,200
	100	46.7	42,400

Additional Information:

Outfall	Drainage	
002	9.03 acres	= 393,347 square feet.
003	1.78 acres	= 77,537 square feet
004	6.69 acres	= 291,416 square feet

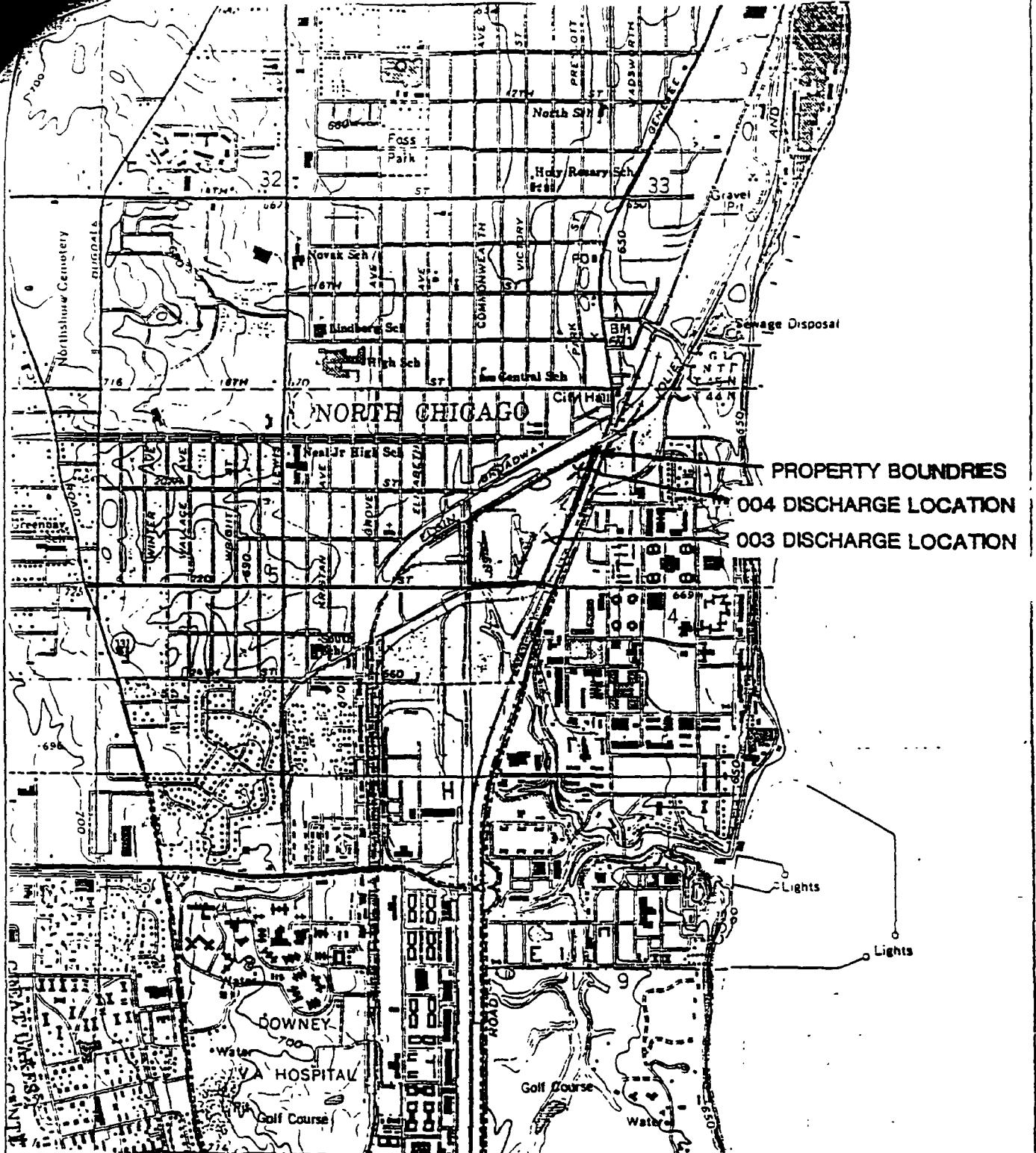
Calculations made by Baxter & Woodman engineering



**NORTH CHICAGO
REFINERS & SMOLETERS DIVISION
R. LAVIN & SONS, INC.**

**BAXTER & WOODMAN, INC.
ENVIRONMENTAL ENGINEERS
CRYSTAL LAKE ILLINOIS**

DRAWN BY	DATE	FILE NO.	SHEET NO.
DTJ	7-11-90	87595	1 OF 1



NORTH CHICAGO REFINERS & SMOLETERS DIVISION
R. LAVIN & SONS, INC.

BAXTER & WOODMAN, INC.
ENVIRONMENTAL ENGINEERS
CRYSTAL LAKE ILLINOIS

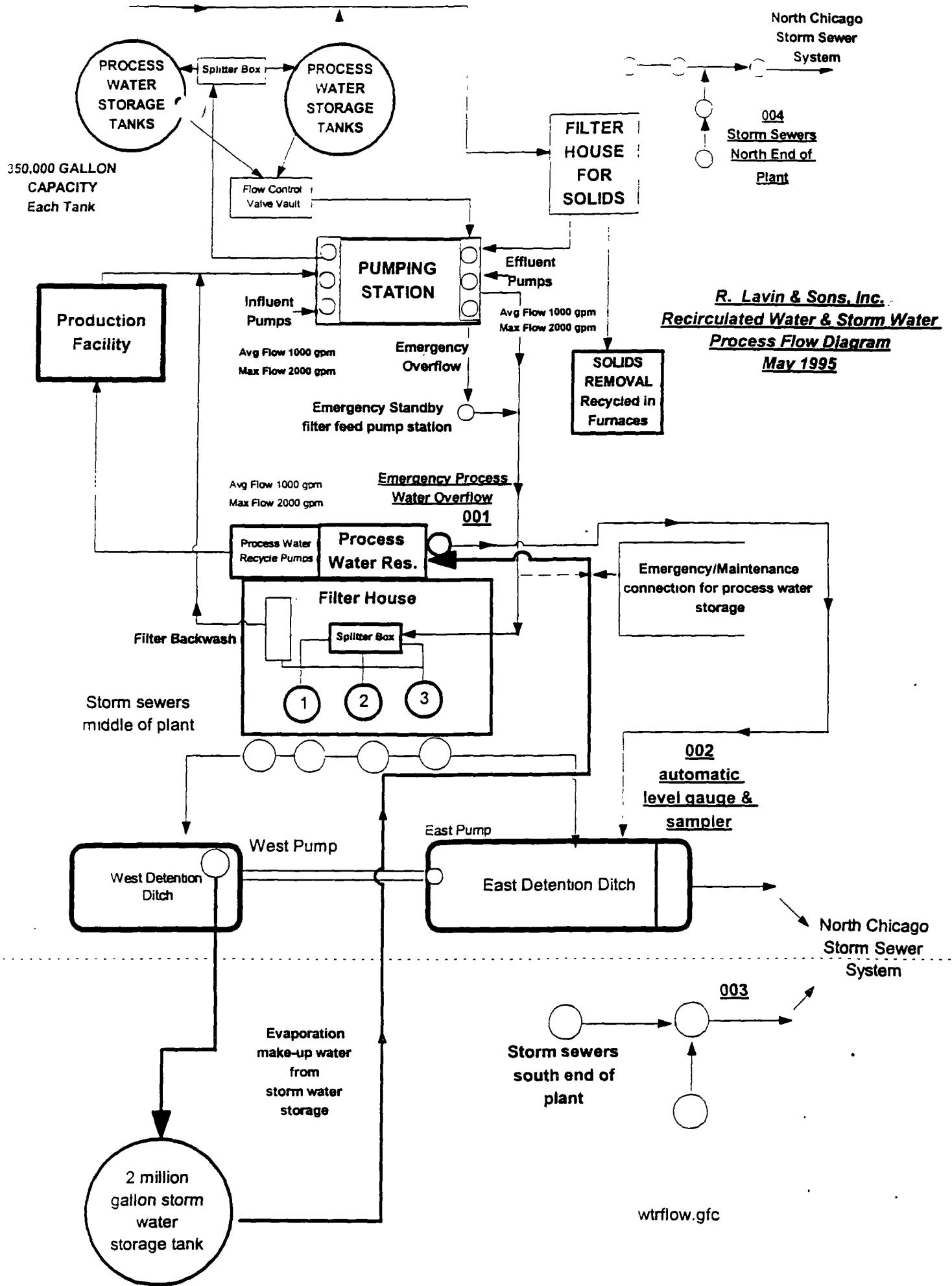
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Barker
Woodman
consulting engineers
experts in
structural engineering



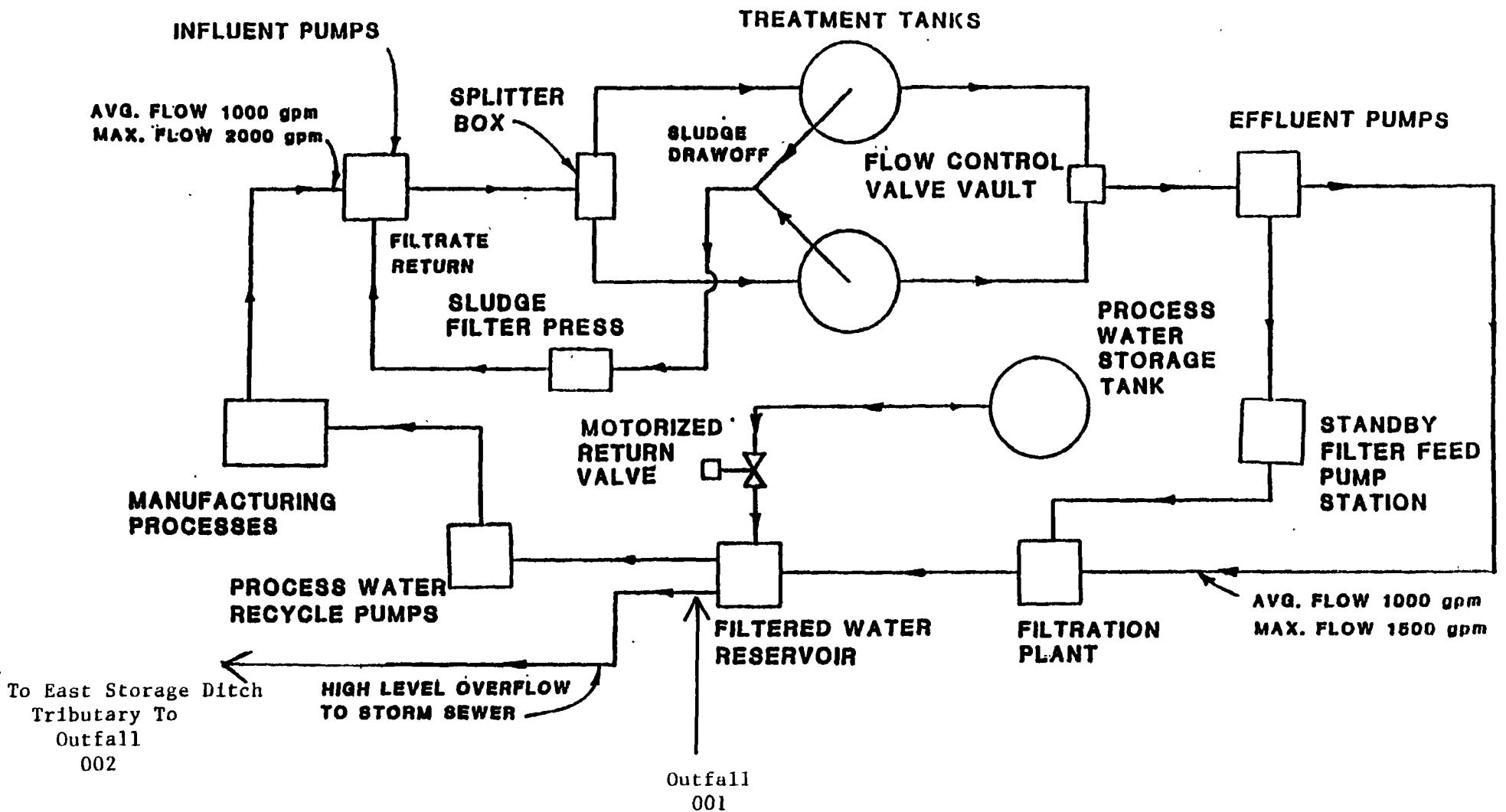


FIGURE 1-1
PROCESS FLOW DIAGRAM

USE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of information on separate sheets (use the same format) instead of completing these pages.
INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ILD097271563

Form Approved
OMB No. 2040-0086
Approval expires 7-31-88

OUTFALL NO

001

INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

ART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERG. VALUE (if available)			e. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
Total Chemical Oxygen Demand (TOC)	N/A									N/A			
Total Chemical Oxygen Demand (TOC)	N/A									N/A			
Total Organic Carbon (TOC)	N/A									N/A			
Total Suspended Solids (TSS)	34.4				15.0			28.0	ppm			N/A	
Ammonia (as N)	N/A									N/A			
Temperature (°C)	Value		Value		Value					Value			
Temperature (°C)	Ambient									°C			
Temperature (°C)	Value		Value		Value					Value			
Temperature (°C)	Ambient									°C			
pH	MINIMUM 7.80	MAXIMUM 9.27	MINIMUM	MAXIMUM						STANDARD UNITS			

ART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						d. NO. OF ANALYSES	4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERG. VALUE (if available)			a. LONG TERM AVERAGE VALUE		a. LONG TERM AVERAGE VALUE			
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	
Bromide 1959-67-9	X														
Chlorine, total Residual	X														
Color	X														
Fecal Coliform	X														
Fluoride 6984-48-8	X														
Nitrate-Nitrite (as N)	X														

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ITEM V-8 CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'	3. EFFLUENT								4. UNITS		5. INTAKE (optional)					
		B. MAXIMUM DAILY VALUE		C. LONG TERM AVERAGE VALUE (if available)		d. NO OF ANALYSES	e. CONCENTRATION	f. MASS	g. LONG TERM AVERAGE VALUE		i. NO OF ANALYSES						
		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS							
i. Nitrogen, Total Organic (as N)	X																
n. Oil and Grease	X																
r. Phosphorus (as P), Total (7723-14-0)	X																
j. Radioactivity																	
(1) Alpha, Total	X																
(2) Beta, Total	X																
(3) Radium, Total	X																
(4) Radium 226, Total	X																
k. Sulfate (as SO ₄) (14808-79-8)	X																
l. Sulfide (as S)	X																
m. Sulfite (as SO ₃) (14265-45-3)	X																
n. Surfactants	X																
o. Aluminum, Total (7429-90-5)	X																
p. Barium, Total (7440-39-3)	X																
q. Boron, Total (7440-42-8)	X	16.61			9.30				28.0	ppm							
r. Cobalt, Total (7440-48-4)	X																
s. Iron, Total (7439-89-6)	X	1.93			0.54				28.0	ppm							
t. Magnesium, Total (7439-95-4)	X																
u. Molybdenum, Total (7439-98-7)	X																
v. Manganese, Total (7439-96-8)	X																
w. Tin, Total (7440-31-5)	X	1.45			0.91				28.0	ppm							
x. Titanium, Total (7440-32-6)	X																

II.D097271563

CONTINUED FROM PAGE 3 OF FORM 2-C

001

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. 1. TAKE (optional)		
	a. TEST ING. REQ'D.	b. RE- LIEVED PRE- SENT	c. RE- LIEVED AB- SENT	b. MAXIMUM DAILY VALUE (if available)		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVERG. VALUE (if available)		d. NO. OF ANALYSES	e. CONCENTRATION	f. b. MASS	g. LC. TERM AVERAGE VALUE (if available)	h. TERM AVERG. VALUE (if available)	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS							
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)		X													
2M. Arsenic, Total (7440-38-2)		X													
3M. Beryllium, Total, 7440-41-7		X													
4M. Cadmium, Total (7440-43-9)	X		0.04					0.02		28.0	ppm				
5M. Chromium, Total (7440-47-3)		X													
6M Copper, Total (7440-50-8)	X		1.30					0.39		28.0	ppm				
7M Lead, Total (7439-92-1)	X		0.99					0.46		28.0	ppm				
8M. Mercury, Total (7439-97-6)		X													
9M. Nickel, Total (7440-02-0)	X		0.27					0.05		28.0	ppm				
10M Selenium, Total (7782-49-2)		X													
11M Silver, Total (7440-22-4)		X													
12M. Thallium, Total (7440-28-0)		X													
13M Zinc, Total (7440-66-6)	X		5.92					2.39		28.0	ppm				
14M. Cyanide, Total (57-12-5)		X													
15M. Phenols, Total		X													

DIOXIN

2,3,7,8-Tetra-chlorodibenzo P Dioxin (1764-01-6)

DESCRIBE RESULTS

X

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK X ^{14C}	3. EFFLUENT	4. UNITS	5. INTAKE (optional)								
				A. TESTING REQ'D.	B. DELIVERED SENT	C. CONCENTRATION (1) (2)	D. MAXIMUM 30 DAY VALUE (available) (1) (2)	E. LONG TERM AVERG. VALUE (available) (1) (2)	F. NO. OF ANALYSES	G. CONCENTRATION (1) (2)	H. MASS (1) (2)	I. LONG TERM AVERAGE VALUE (D.N.A.P.Y.) (1) (2)	J. D.N.A.P.Y. (1) (2)
GC/MS FRACTION - VOLATILE COMPOUNDS												
1V. Acrolein (107-02-8)		X										
2V. Acrylonitrile (107-13-1)		X										
3V. Benzene (71-43-2)		X										
4V. Bis (Chloromethyl) Ether (642-88-1)		X										
5V. Bromoform (75-25-2)		X										
6V. Carbon Tetrachloride (56-23-5)		X										
7V. Chlorobenzene (108-90-7)		X										
8V. Chlorodibromomethane (124-48-1)		X										
9V. Chloroethane (76-00-3)		X										
10V. 2-Chloroethylvinyl Ether (110-75-8)		X										
11V. Chloroform (67-66-3)		X										
12V. Dichlorobromomethane (75-27-4)		X										
13V. Dichlorodifluoromethane (76-71-8)		X										
14V. 1,1-Dichloroethane (75-34-3)		X										
15V. 1,2-Dichloroethane (107-06-2)		X										
16V. 1,1-Dichloroethylene (75-35-4)		X										
17V. 1,2-Dichloropropane (78-87-5)		X										
18V. 1,3-Dichloropropylene (542-75-6)		X										
19V. Ethylbenzene (100-41-4)		X										
20V. Methyl Bromide (74-83-9)		X										
21V. Methyl Chloride (74-87-3)		X										

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1) **DISCHARGE NUMBER**
ILD097271563 001

ONIB No 2040 0030
Approval expires 7-31-88

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' IN APPROPRIATE COLUMN			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TEST INFORMATION REQUIRED	B. SPECIMEN PRESENT	C. DE-IDENTIFIED AS SENT	D. MAXIMUM DAILY VALUE (if available) (1) CONCENTRATION (2) MASS	D. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION (2) MASS	E. LONG TERM AVERG. VALUE (if available) (1) CONCENTRATION (2) MASS	F. NO. OF ANALYSES	G. CONCENTRATION	H. MASS	I. LONG TERM AVERAGE VALUE (1) CONCENTRATION (2) MASS	J. NO. ANALYSIS				
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)		X													
2B. Acenaphtylene (208-98-8)		X													
3B. Anthracene (120-12-7)		X													
4B. Benzidine (92-87-5)		X													
5B. Benzo (a) Anthracene (56-55-3)		X													
6B. Benzo (a) Pyrene (50-32-8)		X													
7B. 3,4-Benzo-fluoranthene (205-99-2)		X													
8B. Benzo (ghi) Perylene (191-24-2)		X													
9B. Benzo (k) Fluoranthene (207-08-9)		X													
10B. Bis (2-Chloroethyl) Methane (111-91-1)		X													
11B. Bis (2-Chloroethyl) Ether (111-44-4)		X													
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)		X													
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)		X													
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)		X													
15B. Butyl Benzyl Phthalate (85-68-7)		X													
16B. 2-Chloronaphthalene (91-58-7)		X													
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)		X													
18B. Chrysene (218-01-9)		X													
19B. Dibenzo (a,h) Anthracene (53-70-3)		X													
20B. 1,2-Dichlorobenzene (95-60-1)		X													
21B. 1,3-Dichlorobenzene (541-73-1)		X													

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
TLD097271563	001

OMB No. 2040 0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK X IF APPLICABLE	3. EFFLUENT			4. CONCENTRATION UNITS			5. INTAKE (optional)		
		A. TEST ING. RE- QUIR- ED	B. D. BY- LIVE- PNT- SEN- T	C. GE- OLOGI- CAL LAB- OR- ATORY SEN- T	b. MAXIMUM DAILY VALUE CONCENTRATION (1) CONC. (2) MASS.	b. MAXIMUM 30 DAY VALUE CONCENTRATION (1) CONC. (2) MASS.	c. LONG TERM AVERG. VALUE CONCENTRATION (1) CONC. (2) MASS.	d. NO. OF ANAL- YSES	e. CONCEN- TRATION (1) CONC. (2) MASS.	f. LONG TERM AVERAGE VALUE (1) CONCEN- TRATION (2) MASS.	g. NO. OF CANAL W. YSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)										
22B. 1,4-Dichloro-benzene (106-46-7)		X								
23B. 3,3'-Dichloro-benzidine (91-84-1)		X								
24B. Diethyl Phthalate (84-66-2)		X								
25B. Dimethyl Phthalate (131-11-3)		X								
26B. Di-N-Butyl Phthalate (84-74-2)		X								
27B. 2,4-Dinitro-toluene (121-14-2)		X								
28B. 2,6-Dinitro-toluene (606-20-2)		X								
29B. Di-N-Octyl Phthalate (117-84-0)		X								
30B. 1,2-Diphenyl-hydrazine (as Azo-benzene) (122-86-7)		X								
31B. Fluoranthene (206-44-0)		X								
32B. Fluorene (86-73-7)		X								
33B Hexachlorobenzene (118-74-1)		X								
34B. Hexa-chlorobutadiene (87-68-3)		X								
35B. Hexachloro-cyclopentadiene (77-47-4)		X								
36B. Hexachloro-ethane (67-72-1)		X								
37B. Indeno (1,3,3-cd) Pyrene (193-39-5)		X								
38B. Isophorone (78-69-1)		X								
39B. Naphthalene (91-20-3)		X								
40B. Nitrobenzene (98-95-3)		X								
41B. N-Nitro-sodimethylamine (62-75-9)		X								
42B. N-Nitrosodi-N-Propylamine		X								

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
	3. TEST INC. NO.	4. DE- LIVERED QUAN- TITY LB.	5. CON- CENTR. PPM	6. MAXIMUM DAILY VALUE (1) CONCENTRATION	7. MAXIMUM 30 DAY VALUE (1) CONCENTRATION	8. LONG TERM AVERAGE VALUE (1) available (1) CONCENTRATION	9. NO. OF ANAL- YSES	10. CONCEN- TRATION	11. MASS	12. LONG TERM AVERAGE VALUE (1) CONCEN- TRATION	13. MASS	14. NO ANA YSE	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)													
43B. N-Nitro- diphenylamine (6-30-6)			X										
44B. Phenanthrene (5-01-8)			X										
45B. Pyrene (29-00-0)			X										
46B. 1,2,4 - Tri- chlorobenzene (120-82-1)			X										
GC/MS FRACTION - PESTICIDES													
1P. Aldrin (309-00-2)			X										
2P. α -BHC (319-84-6)			X										
3P. β -BHC (319-85-7)			X										
4P. γ -BHC (58-89-9)			X										
5P. δ -BHC (319-86-8)			X										
6P. Chlordane (57-74-9)			X										
7P. 4,4'-DDT (50-29-3)			X										
8P. 4,4'-DDE (72-55-9)			X										
9P. 4,4'-DDD (72-54-8)			X										
10P. Dieldrin (60-57-1)			X										
11P. α -Endosulfan (115-29-7)			X										
12P. β -Endosulfan (115-29-7)			X										
13P. Endosulfan Sulfate (1031-07-8)			X										
14P. Endrin (72-20-8)			X										
15P. Endrin Aldehyde (7421-93-4)			X										
16P. Heptachlor (76-44-8)			X										

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1) ILD097271563
OUTFALL NUMBER 001

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TEST ITEM RE- QUI- RED	B. DE- TER- MINA- TION METHOD SENT	C. DE- TER- MINA- TION METHOD SENT	D. MAXIMUM DAILY VALUE (if available) (i) MASS (ii) CONCENTRATION	D. MAXIMUM 30 DAY VALUE (if available) (i) MASS (ii) CONCENTRATION	C. LONG TERM AVERAGE VALUE (if available) (i) MASS (ii) CONCENTRATION	E. NO. OF ANALYSES	F. CONCEN- TRATION	G. MASS	H. NO. ANALYSES	I. CONCEN- TRATION	J. MASS	K. NO. ANALYSES	L. CONCEN- TRATION	M. MASS
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-87-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-8)			X												
22P. PCB-1248 (12872-29-8)			X												
23P. PCB-1260 (11098-82-6)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-36-2)			X												

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

11.D097271563

OUTFALL NO.

002

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See Instructions for additional details.

POLLUTANT	3. EFFLUENT						4. UNITS (specify if blank)	4. INTAKE (optional)				
	B. MAXIMUM DAILY VALUE		C. MAXIMUM 30 DAY VALUE		E. LONG TERM AVEG. VALUE			A. LONG TERM AVERAGE VALUE		B. NO. OF ANALYSES		
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	
Biochemical Oxygen Demand (BOD)	N/A											
Chemical Oxygen Demand (COD)	N/A											
Total Organic Carbon (TOC)	N/A											
Total Suspended Solids (TSS)	117.60				30.33		25.0	PPM				
Nitrogen (as N)	N/A											
Ammonia (as N)	N/A											
	VALUE	VALUE	VALUE	VALUE				VALUE				
	See Attachment IIB											
	VALUE	VALUE	VALUE	VALUE				VALUE				
	Ambient							°C				
	VALUE	VALUE	VALUE	VALUE				VALUE				
	Ambient							°C				
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM				STANDARD				
	7.36	9.80										

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present, and in column 2-b for each pollutant which is limited either directly or indirectly but expressly, in an effluent limitations guideline. You must provide the results of at least one analysis of each pollutant. For other pollutants for which you mark column 2-a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See Instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"	3. EFFLUENT						4. UNITS	4. INTAKE (optional)				
		B. MAXIMUM DAILY VALUE		C. MAXIMUM 30 DAY VALUE		E. LONG TERM AVEG. VALUE			A. LONG TERM AVERAGE VALUE		B. NO. OF ANALYSES		
		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	
Bromide (10666-37-9)	X												
Chlorine, free (molecular)	X												
Color	X												
Fecal Coliform	X												
Fluoride (10064-49-8)	X												
Nitrate (as N)	X												

RECEIVED

SEP 28 2001

Environmental Protection Agency
WPC -- Permit Log In

Results above are from Stormwater only and reflect data from 2000 & 2001.

ITEM V-3 CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if applicable)	2. UNKNOWN X	3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
		4. MAXIMUM DAILY VALUE	5. MAXIMUM 30 DAY VALUE	6. LONG TERM AVERAGE VALUE	7. NO. OF ANALYSES	8. CONCENTRATION	9. MASS	10. CONCENTRATION	11. MASS	12. CONCENTRATION	13. MASS	14. NO. OF ANALYSES
		(1) CONCENTRATION	(1) MASS	(1) CONCENTRATION	(1) MASS	(1) CONCENTRATION	(1) MASS	(1) CONCENTRATION	(1) MASS	(1) CONCENTRATION	(1) MASS	
E. Nitrogen, Total Organic (as N)	X											
F. Oil and Grease	X	25.60		4.96		15.0	PPM					
G. Phenol (as C) Total (74-98-14-0)	X											
H. Phenol (as C) Total (74-98-14-0)												
I. Radon (as R)												
(1) Alpha Decay Total	X											
(2) Beta Total	X											
(3) Radon, Total	X											
(4) Radon, 226, Total	X											
K. Sulfide (as SO ₂) (14260-78-9)	X											
L. Sulfide (as S)	X											
M. Sulfide (as SO ₂) (14260-78-9)	X											
N. Surfaceactive	X											
O. Alkalinity, Total (7429-93-6)	X											
P. Boron, Total (7440-39-3)	X											
Q. Chloride, Total (7647-02-8)	X	4.87		2.64		23.0	PPM					
R. Coliform, Total (7440-08-4)	X											
S. Lead, Total (7439-92-1)	X	2.90		0.94		26.0	PPM					
T. Zinc, Total (7440-66-7)	X											
U. Zinc, Total (7440-66-7)	X											
V. Total Dissolved Solids (7440-08-4)	X	1.01		0.59		8.0	PPM					
W. Turbidity (7440-08-4)	X											

Results above are from Stormwater only and reflect data from 2000 and 2001.
No discharges from 2001.

ILD0972/1563

002

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the 100 GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 50 ppb or greater. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT NAME AND CAS NUMBER (if applicable)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)	
	BEST TESTED CONC. (ppb)	B. SE- LECTED TEST CONC. (ppb)	C. SE- LECTED TEST CONC. (ppb)	D. MAXIMUM DAILY VALUE (ppd) (ppb)	D. MAXIMUM 24-HOUR VALUE (ppd) (ppb)	E. LONG TERM X-VHS. VALUE (ppd) (ppb)	F. NO. OF ANAL- YSES	G. CONCEN- TRATION (ppb)	H. MASS	I. NO. OF ANAL- YSES	J. LONG TERM AVERAGE VALUE (ppb)	K. NO. OF ANAL- YSES
MINERALS, CYANIDE, AND TOTAL PHENOLS												
110. Antimony, Total (7440-36-0)		X										
111. Arsenic, Total (7440-22-2)		X										
112. Beryllium, Total (7440-41-7)		X										
113. Cadmium, Total (7440-43-9)	X	0.08				0.02		26.0	PPM			
114. Chromium, Total (7440-47-3)		X										
115. Copper, Total (7440-16-0)	X	1.43				0.83		26.0	PPM			
116. Lead, Total (7440-22-1)	X	1.08				0.57		26.0	PPM			
117. Mercury, Total (7439-97-0)		X										
118. Nickel, Total (7440-09-0)	X	0.34				0.07		26.0	PPM			
119. Selenium, Total (7782-49-2)		X										
120. Silver, Total (7440-41-0)		X										
121. Thallium, Total (7440-26-0)		X										
122. Zinc, Total (7440-66-0)	X	6.16				3.08		26.0	PPM			
123. Cyanide, Total (77-12-5)		X										
124. Phenols, Total (77-01-8)		X										
DESCRIBE RESULTS												
125. Phenols, Process (77-01-8)		X										

Results above are from Stormwater only and reflect data from 2000 and 2001.

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if applicable)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
	BEST TEST INSTRU- MENT USED	C. BE- ING MONI- TORED SENT	D. MAXIMUM DAILY VALUE CONCENTRATION	E. MAXIMUM 30 DAY VALUE CONCENTRATION	F. LONG TERM AVERAGE VALUE (1) CONCEN- TRATION (2) MASS	G. NO. OF ANAL- YSES	H. CONCEN- TRATION	I. MASS	J. LONG TERM AVERAGE VALUE (1) CONCEN- TRATION (2) MASS	K. NO. OF ANAL- YSES			
GC/MS FRACTION - VOLATILE COMPOUNDS													
IV. Acetone (107-05-1)		X											
2V. Acrylonitrile (107-13-1)		X											
3V. Acetone (107-05-1)		X											
4V. 1,1,1-Trichloro- ethane (63-10-3)		X											
5V. Bromoform (75-20-5)		X											
6V. Carbon Tetrachloride (56-23-5)		X											
7V. Chlorobenzene (108-80-7)		X											
8V. Chlrodi- methylmethane (126-48-1)		X											
9V. Chloroethane (75-00-5)		X											
10V. 2-Chloro- propane (67-64-1)		X											
11V. Chloroform (58-78-3)		X											
12V. Chloroform (58-78-3)		X											
13V. Chloroform (58-78-3)		X											
14V. 1,1-Dichloro- ethane (75-20-5)		X											
15V. 1,1-Dichloro- ethane (75-20-5)		X											
16V. 1,1-Dichloro- ethane (75-20-5)		X											
17V. 1,2-Dichloro- ethane (75-20-5)		X											
18V. 1,2-Dichloro- ethane (75-20-5)		X											
19V. Ethylbenzene (100-41-4)		X											
20V. Methyl Bromide (74-83-9)		X											
21V. Methyl Chloride (74-87-3)		X											

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1) ILD097271563
OUTFALL NUMBER 002

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING QUA- LITY SIGHT	B. DE- TERMINED QUA- LITY SIGHT	C. DE- TERMINED QUA- LITY SIGHT	D. MAXIMUM DAILY VALUE (i) CONCENTRATION (ii) MASS	D. MAXIMUM 30 DAY VALUE (i) CONCENTRATION (ii) MASS	E. LONG TERM AVERAGE VALUE (i) CONCENTRATION (ii) MASS	F. NO. OF ANALY- SES	G. CONcen- TRATION	H. MASS	I. NO. L. ANAL. SES	J. LONG TERM AVERAGE VALUE (i) CONCEN- TRATION (ii) MASS	K. NO. L. ANAL. SES		
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)														
22V. Methylene Chloride (75-00-2)		X												
23V. 1,1,2-Tetra-chloroethane (76-84-6)		X												
24V. Tetrachloro-ethylene (127-18-4)		X												
25V. Toluene (108-88-3)		X												
26V. 1,2-Trans-Dichloroethylene (156-60-6)		X												
27V. 1,1,1-Trichloroethane (71-55-6)		X												
28V. 1,1,2-Trichloroethane (79-00-5)		X												
29V. Trichloro-ethylene (79-01-6)		X												
30V. Trichloro-Methane (75-00-4)		X												
31V. Vinyl Chloride (75-01-4)		X												
GC/MS FRACTION - ACID COMPOUNDS														
1A. 2-Chloropheno (95-67-8)		X												
2A. 2,4-Dichloro-phenol (120-83-2)		X												
3A. 2,4-Dimethyl-phenol (106-67-9)		X												
4A. 4,6-Dinitro-O-Cresol (534-62-1)		X												
5A. 2,4-Dinitro-phenol (51-28-5)		X												
6A. 2-Nitrophenol (88-76-5)		X												
7A. 4-Nitrophenol (100-02-7)		X												
8A. P-Chloro-M-Cresol (59-50-7)		X												
9A. Pentachloro-phenol (87-86-8)		X												
10A. Phenol (108-95-2)		X												
11A. 2,4,6-Tri-chlorophenol (89-06-2)		X												

CONTINUED FROM THE FRONT											
CLASSIFICATION - BASE/NEUTRAL COMPOUNDS											
18. Acenaphthene		19. Acenaphthylene		20. Acenaphthylene		21. Acenaphthylene		22. Acenaphthylene		23. Acenaphthylene	
b. NO. OF ISOPROPYL GROUPS	c. NO. OF METHYL GROUPS	d. NO. OF BENZYL GROUPS	e. MAXIMUM NUMBER OF BONDS TO CARBON ATOMS	f. NUMBER OF BONDS TO CARBON ATOMS	g. NUMBER OF BONDS TO CARBON ATOMS	h. NUMBER OF BONDS TO CARBON ATOMS	i. NUMBER OF BONDS TO CARBON ATOMS	j. NUMBER OF BONDS TO CARBON ATOMS	k. NUMBER OF BONDS TO CARBON ATOMS	l. NUMBER OF BONDS TO CARBON ATOMS	m. NUMBER OF BONDS TO CARBON ATOMS
18. Acenaphthene	19. Acenaphthylene	20. Acenaphthylene	21. Acenaphthylene	22. Acenaphthylene	23. Acenaphthylene	24. Acenaphthylene	25. Acenaphthylene	26. Acenaphthylene	27. Acenaphthylene	28. Acenaphthylene	29. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-127)	(120-128)	(120-129)	(120-130)	(120-131)	(120-132)	(120-133)	(120-134)	(120-135)	(120-136)	(120-137)	(120-138)
32. Acenaphthylene	33. Acenaphthylene	34. Acenaphthylene	35. Acenaphthylene	36. Acenaphthylene	37. Acenaphthylene	38. Acenaphthylene	39. Acenaphthylene	40. Acenaphthylene	41. Acenaphthylene	42. Acenaphthylene	43. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-139)	(120-140)	(120-141)	(120-142)	(120-143)	(120-144)	(120-145)	(120-146)	(120-147)	(120-148)	(120-149)	(120-150)
44. Acenaphthylene	45. Acenaphthylene	46. Acenaphthylene	47. Acenaphthylene	48. Acenaphthylene	49. Acenaphthylene	50. Acenaphthylene	51. Acenaphthylene	52. Acenaphthylene	53. Acenaphthylene	54. Acenaphthylene	55. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-151)	(120-152)	(120-153)	(120-154)	(120-155)	(120-156)	(120-157)	(120-158)	(120-159)	(120-160)	(120-161)	(120-162)
56. Acenaphthene	57. Acenaphthylene	58. Acenaphthylene	59. Acenaphthylene	60. Acenaphthylene	61. Acenaphthylene	62. Acenaphthylene	63. Acenaphthylene	64. Acenaphthylene	65. Acenaphthylene	66. Acenaphthylene	67. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-163)	(120-164)	(120-165)	(120-166)	(120-167)	(120-168)	(120-169)	(120-170)	(120-171)	(120-172)	(120-173)	(120-174)
68. Acenaphthene	69. Acenaphthylene	70. Acenaphthylene	71. Acenaphthylene	72. Acenaphthylene	73. Acenaphthylene	74. Acenaphthylene	75. Acenaphthylene	76. Acenaphthylene	77. Acenaphthylene	78. Acenaphthylene	79. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-175)	(120-176)	(120-177)	(120-178)	(120-179)	(120-180)	(120-181)	(120-182)	(120-183)	(120-184)	(120-185)	(120-186)
80. Acenaphthene	81. Acenaphthylene	82. Acenaphthylene	83. Acenaphthylene	84. Acenaphthylene	85. Acenaphthylene	86. Acenaphthylene	87. Acenaphthylene	88. Acenaphthylene	89. Acenaphthylene	90. Acenaphthylene	91. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-187)	(120-188)	(120-189)	(120-190)	(120-191)	(120-192)	(120-193)	(120-194)	(120-195)	(120-196)	(120-197)	(120-198)
92. Acenaphthene	93. Acenaphthylene	94. Acenaphthylene	95. Acenaphthylene	96. Acenaphthylene	97. Acenaphthylene	98. Acenaphthylene	99. Acenaphthylene	100. Acenaphthylene	101. Acenaphthylene	102. Acenaphthylene	103. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-199)	(120-200)	(120-201)	(120-202)	(120-203)	(120-204)	(120-205)	(120-206)	(120-207)	(120-208)	(120-209)	(120-210)
104. Acenaphthene	105. Acenaphthylene	106. Acenaphthylene	107. Acenaphthylene	108. Acenaphthylene	109. Acenaphthylene	110. Acenaphthylene	111. Acenaphthylene	112. Acenaphthylene	113. Acenaphthylene	114. Acenaphthylene	115. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-211)	(120-212)	(120-213)	(120-214)	(120-215)	(120-216)	(120-217)	(120-218)	(120-219)	(120-220)	(120-221)	(120-222)
116. Acenaphthene	117. Acenaphthylene	118. Acenaphthylene	119. Acenaphthylene	120. Acenaphthylene	121. Acenaphthylene	122. Acenaphthylene	123. Acenaphthylene	124. Acenaphthylene	125. Acenaphthylene	126. Acenaphthylene	127. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-223)	(120-224)	(120-225)	(120-226)	(120-227)	(120-228)	(120-229)	(120-230)	(120-231)	(120-232)	(120-233)	(120-234)
128. Acenaphthene	129. Acenaphthylene	130. Acenaphthylene	131. Acenaphthylene	132. Acenaphthylene	133. Acenaphthylene	134. Acenaphthylene	135. Acenaphthylene	136. Acenaphthylene	137. Acenaphthylene	138. Acenaphthylene	139. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-235)	(120-236)	(120-237)	(120-238)	(120-239)	(120-240)	(120-241)	(120-242)	(120-243)	(120-244)	(120-245)	(120-246)
140. Acenaphthene	141. Acenaphthylene	142. Acenaphthylene	143. Acenaphthylene	144. Acenaphthylene	145. Acenaphthylene	146. Acenaphthylene	147. Acenaphthylene	148. Acenaphthylene	149. Acenaphthylene	150. Acenaphthylene	151. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-247)	(120-248)	(120-249)	(120-250)	(120-251)	(120-252)	(120-253)	(120-254)	(120-255)	(120-256)	(120-257)	(120-258)
152. Acenaphthene	153. Acenaphthylene	154. Acenaphthylene	155. Acenaphthylene	156. Acenaphthylene	157. Acenaphthylene	158. Acenaphthylene	159. Acenaphthylene	160. Acenaphthylene	161. Acenaphthylene	162. Acenaphthylene	163. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-259)	(120-260)	(120-261)	(120-262)	(120-263)	(120-264)	(120-265)	(120-266)	(120-267)	(120-268)	(120-269)	(120-270)
164. Acenaphthene	165. Acenaphthylene	166. Acenaphthylene	167. Acenaphthylene	168. Acenaphthylene	169. Acenaphthylene	170. Acenaphthylene	171. Acenaphthylene	172. Acenaphthylene	173. Acenaphthylene	174. Acenaphthylene	175. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-271)	(120-272)	(120-273)	(120-274)	(120-275)	(120-276)	(120-277)	(120-278)	(120-279)	(120-280)	(120-281)	(120-282)
176. Acenaphthene	177. Acenaphthylene	178. Acenaphthylene	179. Acenaphthylene	180. Acenaphthylene	181. Acenaphthylene	182. Acenaphthylene	183. Acenaphthylene	184. Acenaphthylene	185. Acenaphthylene	186. Acenaphthylene	187. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-283)	(120-284)	(120-285)	(120-286)	(120-287)	(120-288)	(120-289)	(120-290)	(120-291)	(120-292)	(120-293)	(120-294)
188. Acenaphthene	189. Acenaphthylene	190. Acenaphthylene	191. Acenaphthylene	192. Acenaphthylene	193. Acenaphthylene	194. Acenaphthylene	195. Acenaphthylene	196. Acenaphthylene	197. Acenaphthylene	198. Acenaphthylene	199. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-295)	(120-296)	(120-297)	(120-298)	(120-299)	(120-300)	(120-301)	(120-302)	(120-303)	(120-304)	(120-305)	(120-306)
200. Acenaphthene	201. Acenaphthylene	202. Acenaphthylene	203. Acenaphthylene	204. Acenaphthylene	205. Acenaphthylene	206. Acenaphthylene	207. Acenaphthylene	208. Acenaphthylene	209. Acenaphthylene	210. Acenaphthylene	211. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-307)	(120-308)	(120-309)	(120-310)	(120-311)	(120-312)	(120-313)	(120-314)	(120-315)	(120-316)	(120-317)	(120-318)
212. Acenaphthene	213. Acenaphthylene	214. Acenaphthylene	215. Acenaphthylene	216. Acenaphthylene	217. Acenaphthylene	218. Acenaphthylene	219. Acenaphthylene	220. Acenaphthylene	221. Acenaphthylene	222. Acenaphthylene	223. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-319)	(120-320)	(120-321)	(120-322)	(120-323)	(120-324)	(120-325)	(120-326)	(120-327)	(120-328)	(120-329)	(120-330)
224. Acenaphthene	225. Acenaphthylene	226. Acenaphthylene	227. Acenaphthylene	228. Acenaphthylene	229. Acenaphthylene	230. Acenaphthylene	231. Acenaphthylene	232. Acenaphthylene	233. Acenaphthylene	234. Acenaphthylene	235. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-331)	(120-332)	(120-333)	(120-334)	(120-335)	(120-336)	(120-337)	(120-338)	(120-339)	(120-340)	(120-341)	(120-342)
236. Acenaphthene	237. Acenaphthylene	238. Acenaphthylene	239. Acenaphthylene	240. Acenaphthylene	241. Acenaphthylene	242. Acenaphthylene	243. Acenaphthylene	244. Acenaphthylene	245. Acenaphthylene	246. Acenaphthylene	247. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-343)	(120-344)	(120-345)	(120-346)	(120-347)	(120-348)	(120-349)	(120-350)	(120-351)	(120-352)	(120-353)	(120-354)
248. Acenaphthene	249. Acenaphthylene	250. Acenaphthylene	251. Acenaphthylene	252. Acenaphthylene	253. Acenaphthylene	254. Acenaphthylene	255. Acenaphthylene	256. Acenaphthylene	257. Acenaphthylene	258. Acenaphthylene	259. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-355)	(120-356)	(120-357)	(120-358)	(120-359)	(120-360)	(120-361)	(120-362)	(120-363)	(120-364)	(120-365)	(120-366)
260. Acenaphthene	261. Acenaphthylene	262. Acenaphthylene	263. Acenaphthylene	264. Acenaphthylene	265. Acenaphthylene	266. Acenaphthylene	267. Acenaphthylene	268. Acenaphthylene	269. Acenaphthylene	270. Acenaphthylene	271. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-367)	(120-368)	(120-369)	(120-370)	(120-371)	(120-372)	(120-373)	(120-374)	(120-375)	(120-376)	(120-377)	(120-378)
272. Acenaphthene	273. Acenaphthylene	274. Acenaphthylene	275. Acenaphthylene	276. Acenaphthylene	277. Acenaphthylene	278. Acenaphthylene	279. Acenaphthylene	280. Acenaphthylene	281. Acenaphthylene	282. Acenaphthylene	283. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-379)	(120-380)	(120-381)	(120-382)	(120-383)	(120-384)	(120-385)	(120-386)	(120-387)	(120-388)	(120-389)	(120-390)
284. Acenaphthene	285. Acenaphthylene	286. Acenaphthylene	287. Acenaphthylene	288. Acenaphthylene	289. Acenaphthylene	290. Acenaphthylene	291. Acenaphthylene	292. Acenaphthylene	293. Acenaphthylene	294. Acenaphthylene	295. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-391)	(120-392)	(120-393)	(120-394)	(120-395)	(120-396)	(120-397)	(120-398)	(120-399)	(120-400)	(120-401)	(120-402)
296. Acenaphthene	297. Acenaphthylene	298. Acenaphthylene	299. Acenaphthylene	300. Acenaphthylene	301. Acenaphthylene	302. Acenaphthylene	303. Acenaphthylene	304. Acenaphthylene	305. Acenaphthylene	306. Acenaphthylene	307. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-403)	(120-404)	(120-405)	(120-406)	(120-407)	(120-408)	(120-409)	(120-410)	(120-411)	(120-412)	(120-413)	(120-414)
308. Acenaphthene	309. Acenaphthylene	310. Acenaphthylene	311. Acenaphthylene	312. Acenaphthylene	313. Acenaphthylene	314. Acenaphthylene	315. Acenaphthylene	316. Acenaphthylene	317. Acenaphthylene	318. Acenaphthylene	319. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-415)	(120-416)	(120-417)	(120-418)	(120-419)	(120-420)	(120-421)	(120-422)	(120-423)	(120-424)	(120-425)	(120-426)
320. Acenaphthene	321. Acenaphthylene	322. Acenaphthylene	323. Acenaphthylene	324. Acenaphthylene	325. Acenaphthylene	326. Acenaphthylene	327. Acenaphthylene	328. Acenaphthylene	329. Acenaphthylene	330. Acenaphthylene	331. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-427)	(120-428)	(120-429)	(120-430)	(120-431)	(120-432)	(120-433)	(120-434)	(120-435)	(120-436)	(120-437)	(120-438)
332. Acenaphthene	333. Acenaphthylene	334. Acenaphthylene	335. Acenaphthylene	336. Acenaphthylene	337. Acenaphthylene	338. Acenaphthylene	339. Acenaphthylene	340. Acenaphthylene	341. Acenaphthylene	342. Acenaphthylene	343. Acenaphthylene
X	X	X	X	X	X	X	X	X	X	X	X
(120-439)	(120-440)	(120-441)	(120-442)	(120-443)	(120-444)	(120-445)	(120-446)	(

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of Form J) | OUTFALL NUMBER
ILD097271563 | 002

POLLUTANT NAME AND CAS NUMBER (if available)	2. MARK X IF APPLICABLE	3. EFFLUENT			4. UNITS			5. INTAKE (OPTIONAL)		
		A. MAXIMUM DAILY VALUE (1) CONCENTRATION (2) MASS	B. MAXIMUM 30-DAY VALUE (1) CONCENTRATION (2) MASS	C. LONG TERM AVERAGE VALUE (1) CONCENTRATION (2) MASS	D. NO. OF DAYS OVER WHICH CONCENTRATION MAINTAINED	E. CONCEN- TRATION (1) CONCEN- TRATION (2) MASS	F. LONG TERM AVERAGE VALUE (1) CONCEN- TRATION (2) MASS			
SCAMS FRACTION - BASELINE/INITIAL COMPOUNDS (continued)										
228. 1,4-Dichloro- benzene (108-48-7)	X									
238. 3,3'-Dichloro- biphenyl (91-94-1)	X									
248. Diethyl Phthalate (62-54-2)	X									
258. Dimethyl Phthalate (121-11-3)	X									
268. Di-n-Butyl Phthalate (24-74-2)	X									
278. 2,4-Dinitro- toluene (121-14-2)	X									
288. 2,6-Dinitro- toluene (606-38-2)	X									
298. DI-N-Octyl Phthalate (117-84-0)	X									
308. 1,2-Diphenyl- Ethylene (or Acry- lene) (122-96-7)	X									
318. Fluoranthene (208-44-0)	X									
328. Fluorene (208-73-7)	X									
338. Hexachlorobutane (116-34-1)	X									
348. Hexa- chlorobutadiene (57-68-3)	X									
358. Hexachloro- cyclohexadiene (77-47-4)	X									
368. Hexachloro- ethane (67-72-1)	X									
378. Indeno (1,3-d) Pyrene (132-39-5)	X									
388. Isophorone (78-59-1)	X									
398. Naphthalene (91-20-3)	X									
408. Nitrobenzene (60-55-3)	X									
418. N-Nitro- sodimethylaniline (62-78-0)	X									
428. N-Nitroso-di- N-Propylamine (623-64-7)	X									

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
	A. TEST INC. NO. QUAN- TIT-	B. DE- TER- MINA- TION ART- FACT	C. MAXIMUM DAILY VALUE	D. MAXIMUM 30 DAY VALUE (if available)	E. LONG TERM AVERG. VALUE (if available)	F. NO. OF ANAL- YSES	G. CONCEN- TRATION	H. MASS	I. LONG TERM AVERAGE VALUE (if available)	J. NO. OF ANAL- YSES			
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)													
43B. N-Nitro- naphthalenamine (182-30-6)		X											
44B. Phenanthrene (120-01-8)		X											
45B. Pyrene (120-00-0)		X											
46B. 1,2,4-Tri- nitrobenzene (120-93-1)		X											
GC/MS FRACTION - PESTICIDES													
1P. Aldrin (308-00-2)		X											
2P. α -BHC (310-54-6)		X											
3P. β -BHC (310-55-7)		X											
4P. γ -BHC (32-60-2)		X											
5P. δ -BHC (310-55-8)		X											
6P. Chlordane (107-74-8)		X											
7P. 4,4'-DDT (50-29-3)		X											
8P. 4,4'-DDE (72-55-9)		X											
9P. 4,4'-DDD (72-54-8)		X											
10P. Dieldrin (60-57-1)		X											
11P. α -Endosulfan (115-28-7)		X											
12P. β -Endosulfan (115-28-7)		X											
13P. Endosulfan Sulfone (1081-07-8)		X											
14P. Endrin (72-20-8)		X											
15P. Endrin Aldehyde (7421-03-4)		X											
16P. Heptachlor (70-44-8)		X											

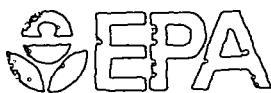
CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER
ILD097271563 | 002

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (opns)			
	A. TEST ING QUAN- TITY	B. OR- IGI- NAL LEVEL TESTED	C. OR- IGI- NAL TEST RENT	D. MAXIMUM DAILY VALUE	E. MAXIMUM 30 DAY VALUE	F. LONG TERM AVERG. VALUE	G. NO. OF SAMPLES	H. CONCEN- TRATION	I. MASS	J. CONCEN- TRATION	K. MASS	L. CONCEN- TRATION	M. MASS	N. LONG TERM AVERAGE VALUE	O. CONCEN- TRATION	P. MASS
WATER FRACTION - PESTICIDES (continued)																
17P. Heptachlor oxide (1024-87-3)			X													
18P. PCB-1242 (1104-00-21-8)			X													
19P. PCB-1254 (11047-60-1)			X													
20P. PCB-1221 (11104-28-2)			X													
21P. PCB-1232 (11141-18-5)			X													
22P. PCB-1248 (12672-29-6)			X													
23P. PCB-1260 (11096-82-6)			X													
24P. PCB-1018 (12674-11-3)			X													
25P. Toxaphene (10001-38-2)			X													

PAGE V-9

Form
2F
NPOES



Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

United States Environmental Protection Agency
Washington, DC 20460

Public reporting burden for this collection is estimated to average 28.6 hours per respondent, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce the burden to: Civil, Information Policy Branch, P.O. Box 2221, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20585.

I. Outfall Location

For each country, list the length of the coastline to the nearest 100 km and the name of the river with the

II. Improvements

- A. Are you now required by any Federal, State, or local authority to meet any transportation criteria for the construction, use, or operation of wastewater treatment systems or any other environmental programs which may affect the proposed construction in this application? This includes, but is not limited to, permit conditions, non-compliance of enforcement orders, traffic management plans, stipulations, court orders, and grants of loan conditions. NO

IRIS AVENUE

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- B. You may attach additional lines describing any additional water production (or other environmental practices which may affect your discharge) you have in mind or which you plan. Indicate whether each program is now underway or planned, and describe your actual or planned protection for each situation.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outlet(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its tanks and discharge structures; the drainage area of each storm water outlet; paved areas and buildings within the drainage area of each storm water outlet; areas known as or present areas used for outdoor storage or disposal of significant materials; areas containing structural control measures to reduce pollutants in storm water runoff, including loading and access areas; areas where protection, filtration, and sedimentation and treatment are required; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); areas and where fluids from the facility are injected underground; capping, and other surface water bodies which receive storm water discharged from the facility.

Continued from the Front

V. Narrative Description of Pollutant Sources

- A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
002	9.03 acres = 393,347 Sq.Ft.	- Entire area paved			
003	1.78 acres = 77,537 Sq.Ft.	- Entire area paved			
004	6.69 acres = 291,416 Sq.Ft.	- Entire area paved			

- B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

1. Copper bearing slag stored outside on concrete pad and in outside storage bins. In an effort to minimize contact with stormwater company has constructed large covered outside storage bins.
2. Outside property is constantly swept on a daily basis and sewers are vacuumed on an as-needed basis to minimize contaminant contact with stormwater.
3. Storm water pollution prevention plan has been implemented. See attached list of some of the housekeeping techniques used to minimize exposure to storm water. (See attachment IV B and C).
4. All hazardous waste generated is stored inside and not exposed to storm water runoff.

- C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Location	Treatment	List Codes from Table 2F-1
002	002 - South end of plant	004 - North end of plant	
003	003 - South end of plant	Treatment	
004	Storm water runoff (and 001 if emergency)	(storm water pollution control to reduce contaminants; See attachment IV B and C)	plan implemented 4-A 4-A 4-A

V. Nonstormwater Discharges

- A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharges from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed

- B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

1. System engineered by Baxter and Woodman. Installation divorced comingling of process water with storm water.
2. Alarm system monitored 24 hours. Installed to monitor entire system and outflow of discharge from 001. System set to alarm prior to any discharge.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

None

Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1)
ILD092721563

VII. Discharge Information

- A,B,C & D: See instructions before proceeding. Complete one set of tables for each outlet. Annotate the outlet number in the space provided. Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.
- E. Potential discharges not covered by analysis - Is any toxic pollutant listed in table 2F-2, 2F-3 or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

 Yes (list all such pollutants below) No (go to Section A)

Copper
Lead
Cadmium
Nickel
Iron
Zinc
Boron

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

 Yes (list all such pollutants below) No (go to Section A)**IX. Contract Analysis Information**

Were any of the analyses reported in item VII performed by a contract laboratory or consulting firm?

 Yes (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) No (go to Section X)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
Northern Lake Service, Inc.	400 N. Lake Avenue Crandon, WI. 54520	715-478-2777	Copper, lead, iron, boron, cadmium, zinc, nickel, oil&grease ph, TSS
R. Lavin & Sons - performed most of the laboratory work in in-house laboratory.			

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (type or print)

George Lennon, Vice President

C. Signature

George Lennon

B. Area Code and Phone No.

847-689-4300

D. Date Signed

9/21/2001

R. Lavin & Sons, Inc.
 Form 2F NPDES Permit Renewal
 Attachment I
 Additional Information

<u>Outfall</u>	<u>Rainfall Frequency</u>	<u>Peak Flow Rate</u> (cubic feet per second)	<u>Total Volume</u> (cubic feet)
002	2 year	22.6	24,600
	5	26.2	28,500
	10	28.4	30,900
	25	34.1	37,100
	50		
	100	37.8	41,200

These numbers above assume that the storage ditches are full and the 2,000,000 gallon water tank is full as well.

003	2 year	9.1	2,770
	5	10.6	3,220
	10	11.5	3,470
	25	13.7	3,840
	50	14.2	4,010
	100	15.3	4,340

004	2 year	27.9	25,300
	5	32.4	29,400
	10	35.3	32,000
	25	39.5	35,900
	50	42.1	38,200
	100	46.7	42,400

Additional Information:

Outfall	Drainage
002	9.03 acres = 393,347 square feet.
003	1.78 acres = 77,537 square feet
004	6.69 acres = 291,416 square feet

Calculations made by Baxter & Woodman engineering

Attachment IV B and C
Form 2F NPDES

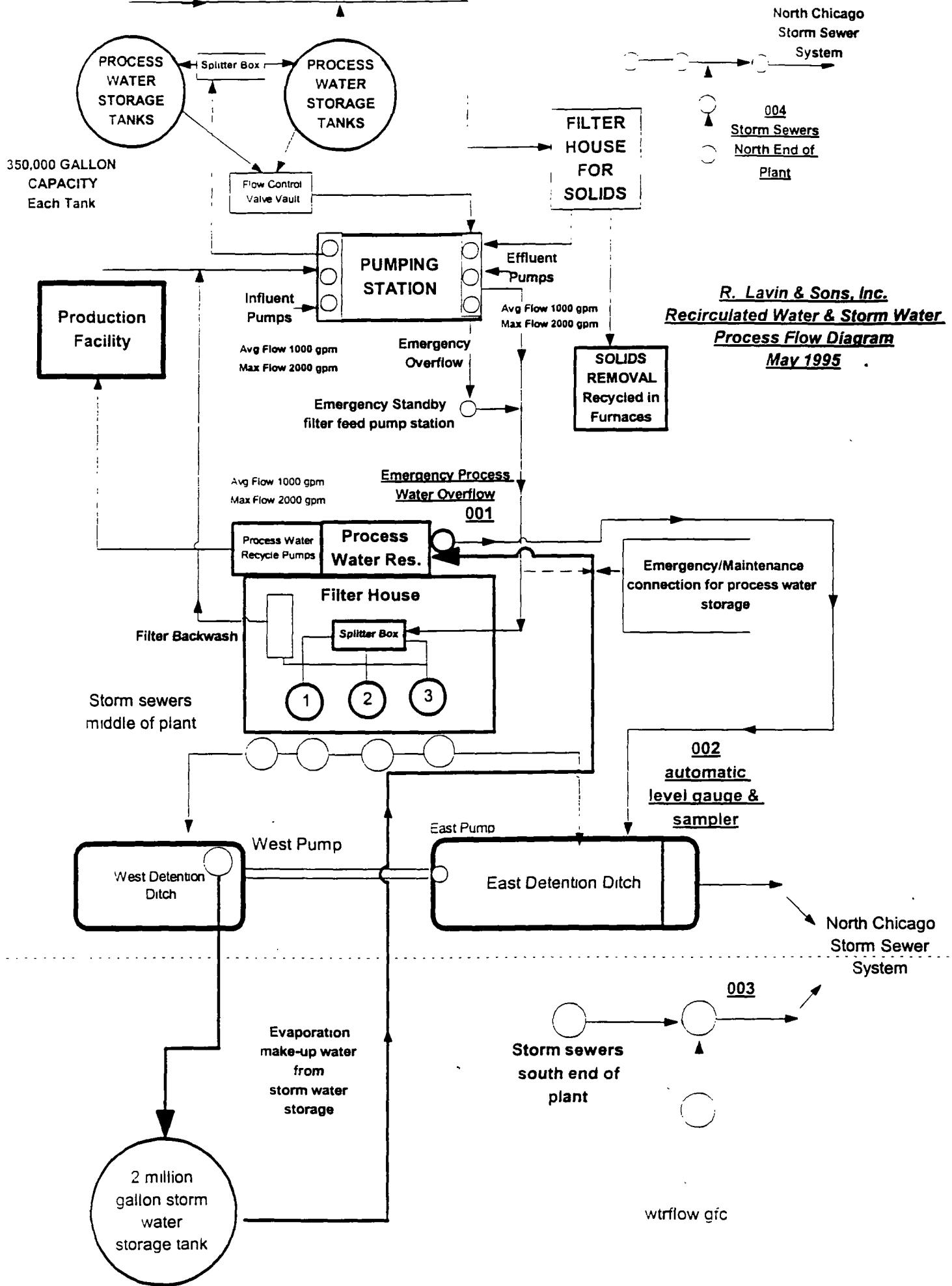
List of Storm Water Pollution Prevention Measures

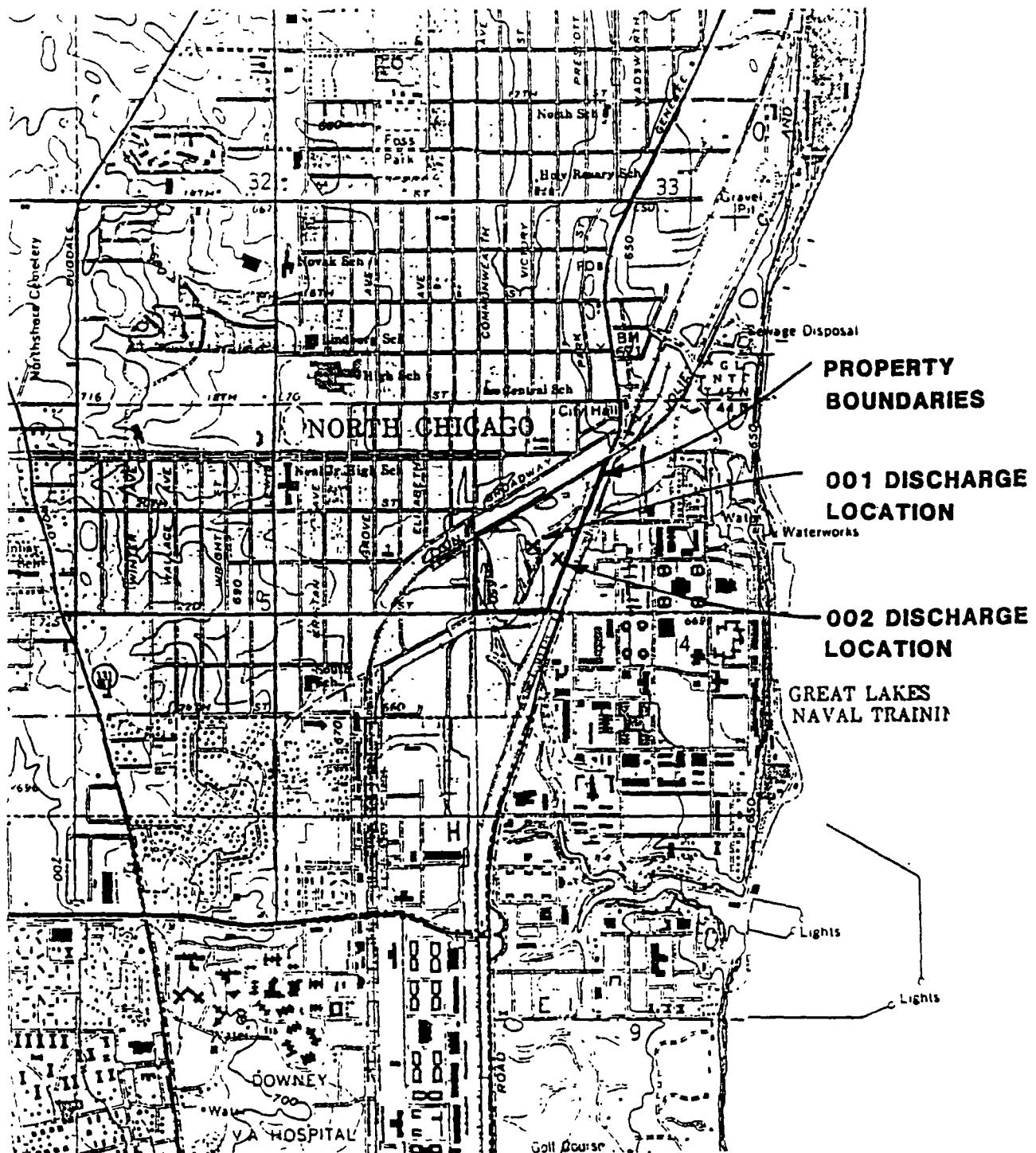
1. Regularly sweep paved areas throughout the plant.
2. Vacuum manholes and sumps as needed.
3. Vacuum flues and critical areas on roofs near flue cleanouts.
4. Inspect for leaks or other conditions that could lead to contact of storm water with raw materials or waste materials.
5. Store containers and drums away from direct traffic routes to prevent accidental spillage.
6. Minimize storage of scrap outside to avoid contact with storm water.
7 Daily inspections of air pollution control equipment to ensure equipment is in proper working condition.
8. Promptly repair or replace defective equipment found during inspections and testing.
9. Check piping, pumps, storage tanks and bins, process and material handling equipment and bulk storage areas for leaks, wind dispersion, corrosion, support or foundation failure, or other deterioration or non containment.
10. Process water system - Daily and weekly routine inspection of key elements of system to ensure proper working conditions.
11. Process water system Annual inspection by pump manufacturer of all pumps in pumping station.
12. Process water system Prompt repair of defective equipment.
13. Regularly inspect plant equipment and above ground tanks and areas where materials are handled, stored or transferred.
14. Inspect paving at the site annually for cracks and other signs of deterioration.
15. Check loading and unloading areas daily for spillage.
16. Inspect area around fuel tanks for spillage.
17. Check for leaking oil and fluids in vehicle and equipment maintenance area.

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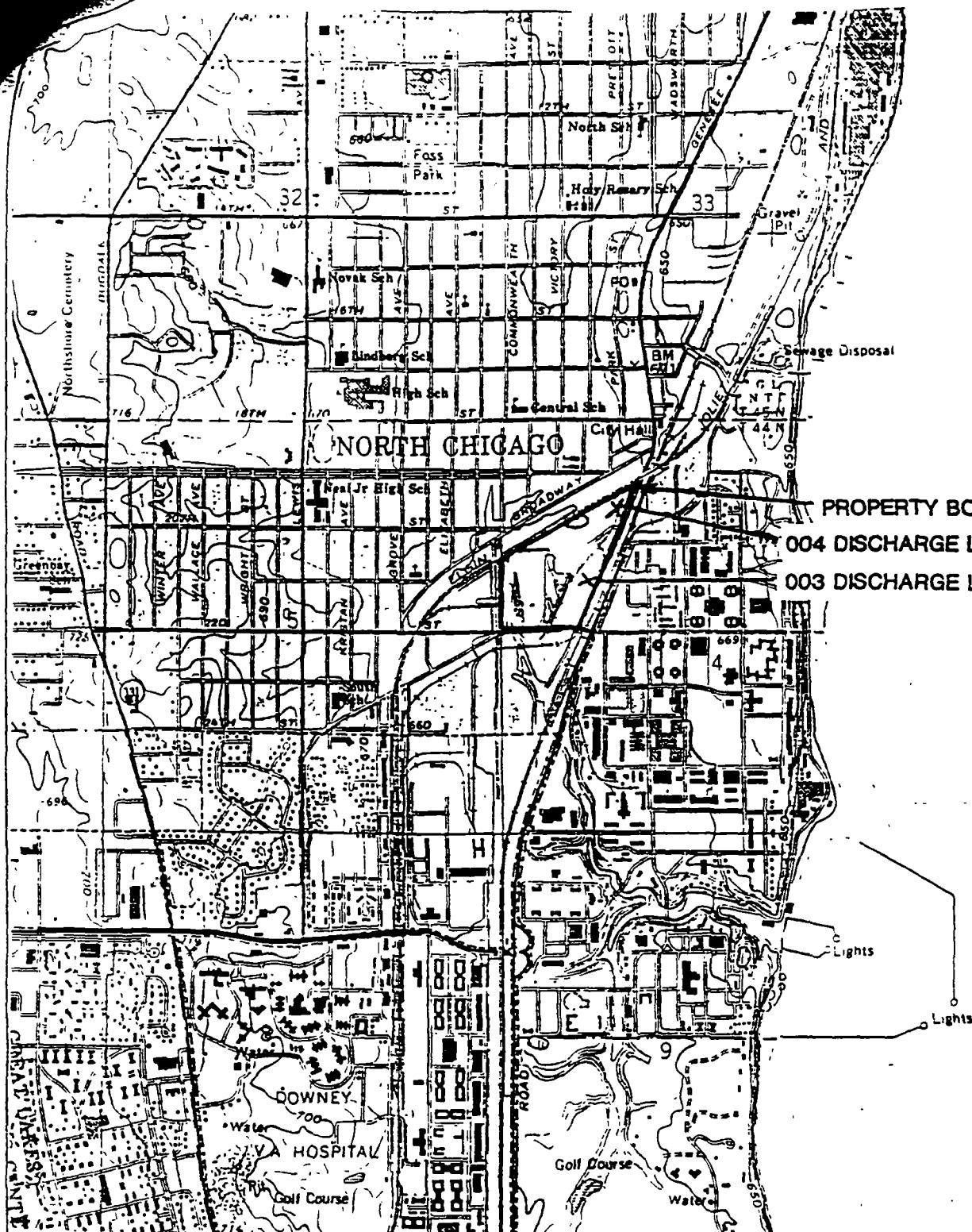




**NORTH CHICAGO
REFINERS & SMELTERS DIVISION
R. LAVIN & SONS, INC.**

BAXTER & WOODMAN, INC.
ENVIRONMENTAL ENGINEERS
CRYSTAL LAKE ILLINOIS

DRAWN BY	DATE	FILE NO.	SHEET NO.
DTJ	7-11-90	87595	1 OF 1



NORTH CHICAGO REFINERS & SMELTERS DIVISION
R. LAVIN & SONS, INC.

BAXTER & WOODMAN, INC.
ENVIRONMENTAL ENGINEERS
CRYSTAL LAKE ILLINOIS

DRAWN BY	DATE	FILE NO.	SHEET NO.
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VII. Discharge information. (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each pollutant. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Ci and Grease	25.60 PPM	N/A	3.77 PPM	6.16 PPM	19	Plant operations
Biological Oxygen Demand (BOD5)						
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	187.60 PPM		38.90 PPM	30.33 PPM	25	Plant operations
Total Nitrogen						
Total Phosphorus						
pH	Minimum 7.38	Maximum 10.04	Minimum 7.36	Maximum 9.80		Plant operations

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outlet. See the instructions for additional details and requirements.

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Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outlet.

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

Part B - Data for the storm events, which resulted in the maximum values for the flow-weighted composite events.					
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm mea- sured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
2/8/01	Maximum	values were after heavy snow melting.	.		

7 Provide a description of the method of flow measurement or estimate.

- 002 - ISCO automatic sampler-trigger flow (inventron unit) sample every 5,000 gallons.
 - 003 - ISCO automatic sampler-trigger rainfall - sample every 20 minutes
 - 004 - ISCO automatic sampler-trigger rainfall - sample every 20 minutes

EPA ID Number (copy from Item 1 of Form 1)
ILD 092721563

Form Approved. GMB No. 2040-0026
003 Approval expires 5-31-92

VII. Disciplinary Informants (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Oil and Grease	9.70	N/A	3.92	4.57	17	Plant Operations
Biological Oxygen Demand (BOD ₅)	.	.	.	.	.	.
Chemical Oxygen Demand (COD)	.	.	.	.	.	.
Total Suspended Solids (TSS)	43.0	.	10.78	4.57	17	Plant Operations
Total Nitrogen	.	.	.	.	.	.
Total Phosphorus	.	.	.	.	.	.
pH	Minimum 6.86	Maximum 9.684	Minimum 7.14	Maximum 9.80	.	.

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outlet. See the instructions for additional details and requirements.

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Continued from the Front

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Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outlet.

Part Q - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composites sample.

Part B - Provide data for the storm events, which resulted in the maximum values for the flow weighted coefficients example.					
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm mea- sured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
2/8/01	Maximum values were after heavy snow melting.				

7. Provide a description of the method of flow measurement or estimate.

002-ISCO Automatic sampler - trigger - Flow (inventron unit) sample every 5,000 gallons.
003-ISCO Automatic sampler - trigger - Rainflow - sample every 20 minutes.
004-ISCO Automatic sampler - trigger - Rainflow - sample every 20 minutes.

EPA ID Number (copy from Item 1 of Form 1)
TLD092721563

Form Approved. CMB No. 2040-0028
004 Approval expires 5-31-92

VII. Discharge information (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfit. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Oil and Grease	9.30 PPM	N/A	3.59 PPM	3.59 PPM	14	Plant Operations
Biological Oxygen Demand (BOD ₅)						
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	77.30 PPM		23.42 PPM	18.84 PPM	14	Plant Operations
Total Nitrogen						
Total Phosphorus						
pH	Minimum	Maximum	Minimum	Maximum		

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each cutoff. See the instructions for additional details and requirements.

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Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outlet.

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1 Date of Storm Event	2 Duration of Storm Event (in minutes)	3 Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm mea- sured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
2/8/01	Maximum values were after heavy snow melting.				

7 Provide a description of the method of flow measurement or estimate.

002-ISCO Automatic sampler - trigger - Flow (inventron unit) sample every 5,000 gallons
003-ISCO Automatic sampler - trigger - Rainfall - sample every 20 minutes.
004-ISCO Automatic sampler - trigger - Rainfall - sample every 20 minutes.